# M-2000
## FS-25

# SERVICE MANUAL

*US Model*
*AEP Model*
*UK Model*

### SPECIFICATIONS

| | |
|---|---|
| Tape | (MICROCASSETTE)™ (normal position type) |
| Track system | 2-track 1-channel monaural |
| Tape speed | 2.4 cm/sec. (15/16 ips), 1.2 cm/sec. (15/32 ips) |
| Tape speed control | −10% to +50% |
| Auto back space | Approx. 0/1/3 sec. |
| Frequency response | 250—4,000 Hz (at 2.4 cm position) |
| Speaker | 5 cm (2 inches) dia. |
| Power output | 300 mW |
| Input | MIC (PLUG IN POWER): minijack, sensitivity 0.3mV for 3 kilohm or lower impedance |
| Output | EARPHONE: minijack, for an 8-300 ohm earphone |
| Power requirements | DC IN 9 V jack accepts the supplied AC power adaptor. |
| Power consumption | 600 mA |
| Dimensions | Approx. 133 × 61.5 × 230 mm (w/h/d) (5¼ × 2½ × 9⅛ inches) not incl. projecting parts and controls |
| Weight | Approx. 0.8 kg (1 lb 12 oz) |
| Supplied accessories | HeadPhone (1)<br>Foot control unit (1)<br>AC power adaptor (1) |

Design and specifications subject to change without notice.

| Model Name Using Similar Mechanism | New |
|---|---|
| Tape Transport Mechanism Type | MB-2000-58 |

**SAFETY-RELATED COMPONENT WARNING!!**

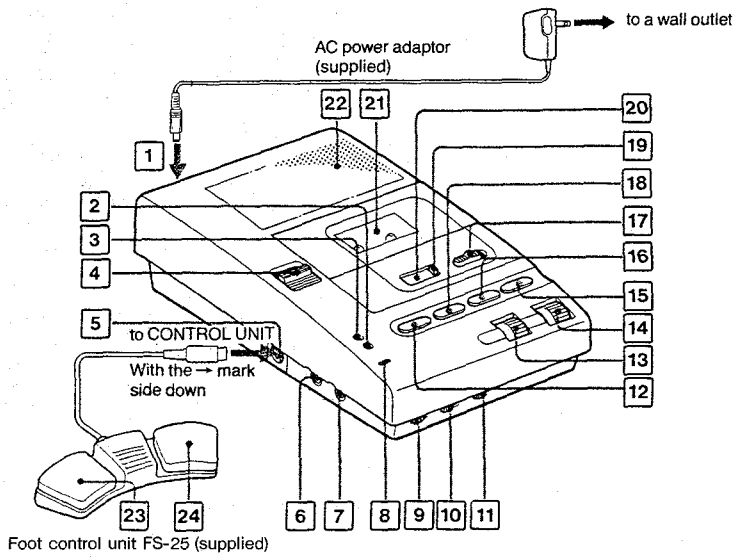
**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

## MICROCASSETTE™ TRANSCRIBER

## SONY®

MICROFILM

## 1-1. LOCATION AND FUNCTION OF CONTROLS



Foot control unit FS-25 (supplied)

1 **DC IN 9 V jack (external power input) jack**

2 **OPR (operation) indicator**
The indicator illuminates during tape operation.

3 **REC (record) indicator**
The indicator illuminates during recording.

4 **⏏ EJECT (cassette eject) lever**

5 **CONTROL UNIT connector**

6 **MIC (external microphone) (PLUG IN POWER)**

7 **EARPHONE jack (minijack)**

8 **MIC (built-in microphone)**

9 **SPEED selector**
**2.4 cm:** A 60-minute recording can be made using both sides of the MC-60 Microcassette. This setting produces optimum sound and is recommended for normal use.
**1.2 cm:** A 120-minute recording can be made using both sides of the MC-60.

10 **REVERSE TIME (0/1/3) (autobackspace time) control**

11 **TONE control**
Slide toward H (high) to reinforce treble, and L (low) to weaken it.

12 **◀◀REW (rewind) button**

13 **SPEED CONTROL (tape speed control)**

14 **VOLUME control**

15 **▶▶ FF (fast forward) button**

16 **▶ PLAY button**

17 **Recording (STOP/REC) switch**

18 **■ STOP button**

19 **RESET button**
Press to reset the counters to zero.

20 **Tape counter**

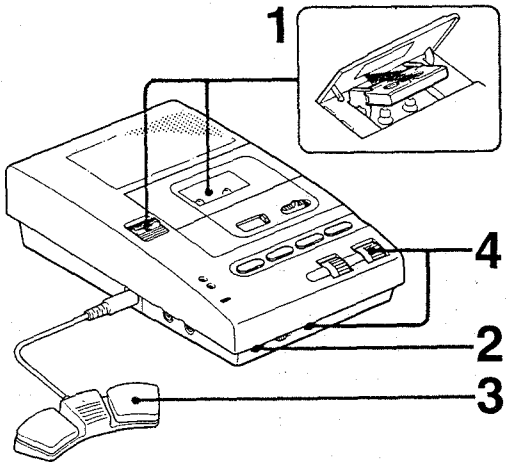
21 **Cassette compartment**

22 **Built-in speaker**

23 **Rewind pedal**

24 **Playback pedal**

## 1-2. TRANSCRIBING




Before operating the unit, connect the AC power adaptor to a wall outlet.

**1 Slide EJECT and insert a cassette.**

**2 Set SPEED to the same tape speed as that used for recording.**

**3 Keep the right side of the pedal depressed to listen to the tape.**

**4 Adjust VOLUME and TONE.**

**To stop the tape,** release the pedal.
You can control the unit with the buttons on itself as well.

**Use of foot control unit**
The foot control unit leaves your hands free, enabling you to control this transcriber with your foot.

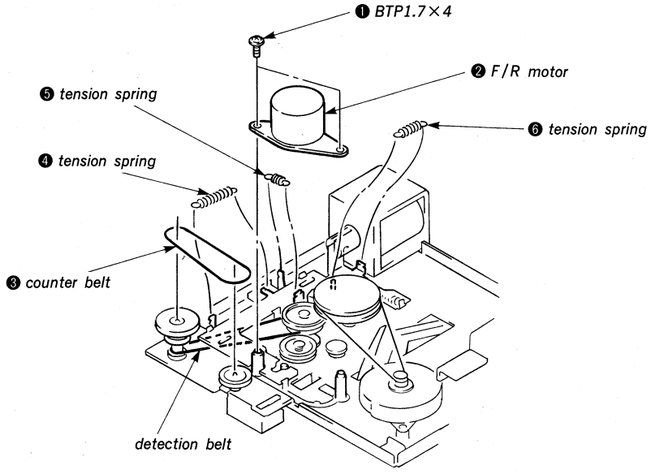
**Auto backspace**
The tape rewinds a little each time it is stopped and the last few recorded words can be reviewed when you resume listening. Adjust REVERSE TIME to the desired length (1 position: 1 second, 3 position: 3 seconds). At the 0 position, the tape stops without rewinding at all. This functions only when the foot control unit is used.

**Speed control**
The tape speed is adjustable with SPEED CONTROL. The tape runs at normal speed with the control set to the center click position.

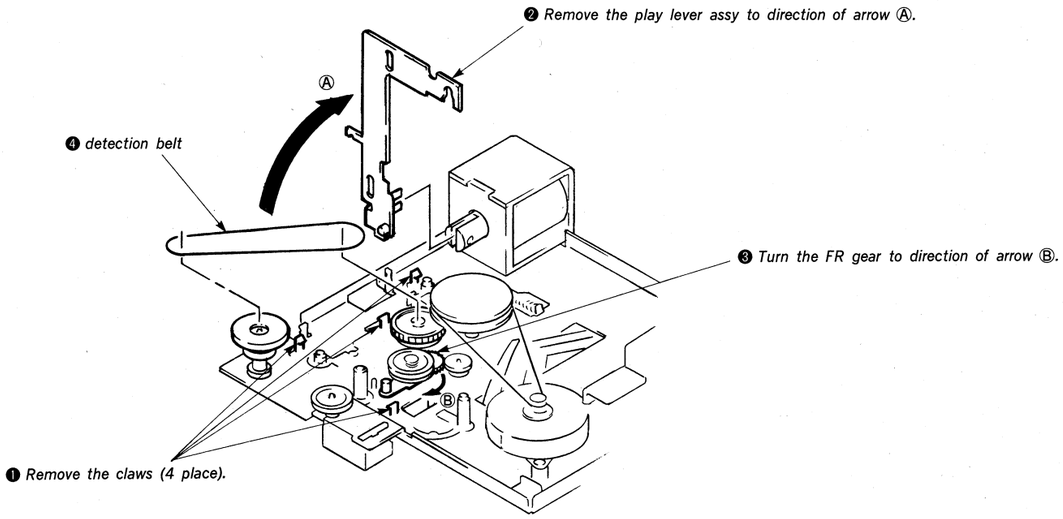
# SECTION 2
# DISASSEMBLY

**Note :** Follow the disassembly procedure in the numerical order given.

## 2-1. EXCHANGE OF DETECTION BELT (1)




## 2-2. EXCHANGE OF DETECTION BELT (2)


❷ Remove the play lever assy to direction of arrow Ⓐ.
Ⓐ
❹ detection belt
❸ Turn the FR gear to direction of arrow Ⓑ.
Ⓑ
❶ Remove the claws (4 place).



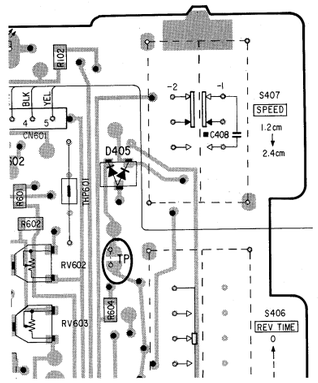
# SECTION 3
# MECHANICAL ADJUSTMENTS

### PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback/erase head — pinch roller
   rubber belts — capstan
   idlers
2. Demagnetize the record/playback/erase head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

**Power Supply Voltage :** 9V dc

**Note :** When performing mechanism deck rotation check opening the main board, solder the TP partion.
After the check, unsolder TP portion.




### Torque Measurement

| Torque | Meter Reading | Torque Meter |
|---|---|---|
| Forward | 8—25g•cm (0.11—0.35oz•inch) | CQ-102M |
| Fast Forward and Rewind | 40—95g•cm (0.56—1.32oz•inch) | CQ-201MA |

### Tape Tension Measurement

| Meter | Meter Reading |
|---|---|
| CQ-403M | More than 40g (1.41oz) |



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# ELECTRICAL AD

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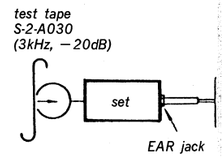
1. The adjustments should be perfo
   service manual.
2. Switches and controls should b
   wise specified.
   • VOLUME (RV101) control : m
   • SPEED CONTROL (RV601) :
   • TONE (S101) switch : HIGH
   • REC (S405) switch : STOP

### Test Tape

| Type | Signal |
|---|---|
| S-2-A030 | 3kHz, −20dB |
| WS-24 | 3kHz, −10dB |

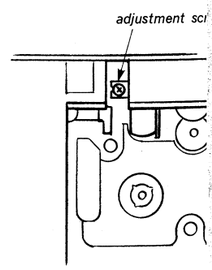
### Record/playback/erase Head
**Procedure :**
Mode : playback




Turn the adjustment screw to ob
VTVM.

**Note :** Finish the screw adjustment
direction.
After the adjustment, apply
the adjustment screw.

**Adjustment Location :**



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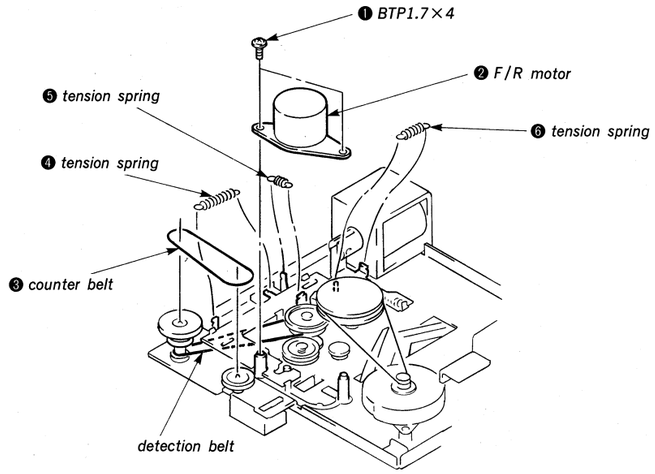


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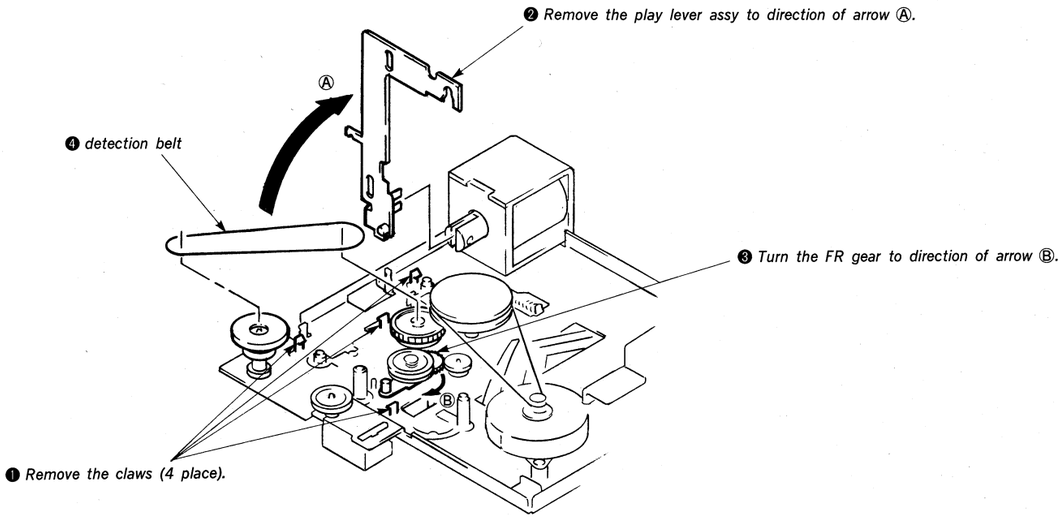
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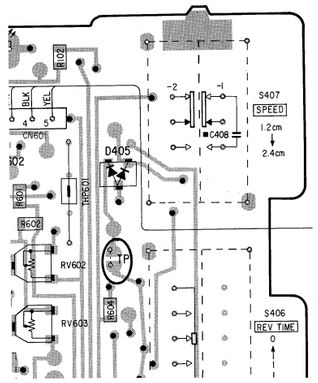


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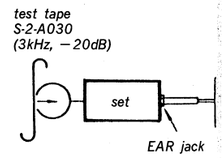


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**Note :** Finish the screw adjustment
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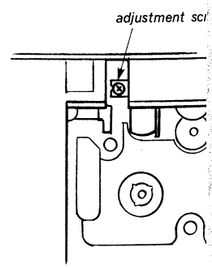
**Adjustment Location :**



## TION 3
## . ADJUSTMENTS

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with a denatured-alcohol-moistened

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c

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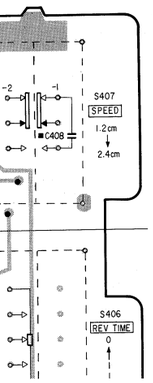



| eading | Torque Meter |
|---|---|
| •cm<br>oz•inch) | CQ-102M |
| g•cm<br>oz•inch) | CQ-201MA |

ent

| Meter Reading |
|---|
| More than 40g (1.41oz) |

# SECTION 4
# ELECTRICAL ADJUSTMENTS

## PRECAUTION

1. The adjustments should be performed in the order given in this service manual.
2. Switches and controls should be set as follows unless otherwise specified.
   - VOLUME (RV101) control : max
   - SPEED CONTROL (RV601) : mechanical mid
   - TONE (S101) switch : HIGH
   - REC (S405) switch : STOP

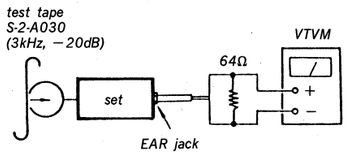
## Test Tape

| Type | Signal | Used for |
|---|---|---|
| S-2-A030 | 3kHz, −20dB | head azimuth adjustment |
| WS-24 | 3kHz, −10dB | tape speed adjustment |

## Record/playback/erase Head Azimuth Adjustment

**Procedure :**

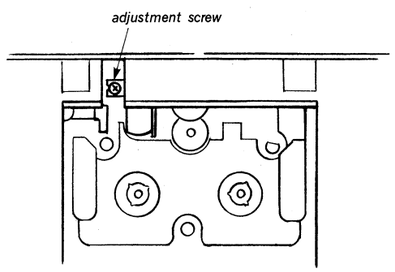
Mode : playback




Turn the adjustment screw to obtain the maximum reading on VTVM.

**Note :** Finish the screw adjustment with a turn in the clockwise direction.
After the adjustment, apply suitable locking compound to the adjustment screw.

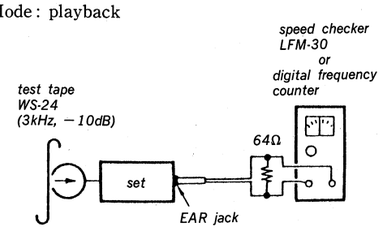
**Adjustment Location :**




## Tape Speed Adjustment

**Procedure :**

Mode : playback




- Perform 2.4cm/s normal speed adjustment before 1.2cm/s normal speed adjustment.

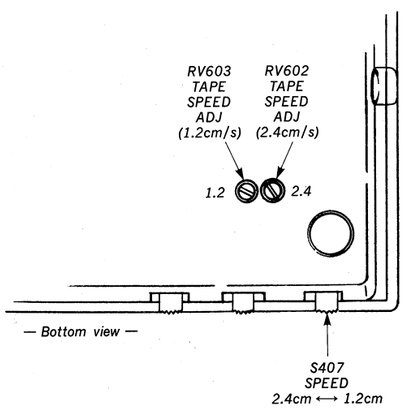
| Normal speed | SPEED (S407) | Adjustment point | Frequency counter |
|---|---|---|---|
| 2.4cm/s | 2.4cm | RV602 | 2,985−3,015Hz |
| 1.2cm/s | 1.2cm | RV603 | 1,492−1,508Hz |

Confirm that the reading on digital frequency counter is specification value as shown below.

| SPEED CONTROL (RV601) | SPEED (S407) | Frequency counter |
|---|---|---|
| max | 2.4cm | more than 4,500Hz |
| | 1.2cm | more than 2,150Hz |
| min | 2.4cm | less than 2,500Hz |
| | 1.2cm | less than 1,250Hz |

Frequency difference between the beginning and the end of the tape should be within ±1% (2.4cm/s normal speed : 30Hz, 1.2cm/s normal speed : 15Hz).

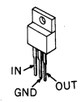
**Adjustment Location :**



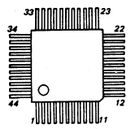
# SECTION 5
# DIAGRAMS

## 5-1. SEMICONDUCTOR LEAD LAYOUTS

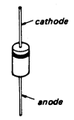
**RC7805FA**




**μPD75402GB-514-3B4**




**10E2**




● Semiconductor Location

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D101 | B-14 | Q304 | J-7 |
| D102 | B-15 | Q305 | H-12 |
| D103 | E-7 | Q401 | E-7 |
| D104 | D-7 | Q402 | C-7 |
| D105 | D-7 | Q403 | F-12 |
| D401 | H-13 | Q404 | F-7 |
| D402 | F-11 | Q405 | G-6 |
| D403 | C-7 | Q406 | B-8 |
| D404 | F-13 | Q407 | B-7 |
| D405 | C-15 | Q408 | C-7 |
| D501 | B-5 | Q409 | F-12 |
| D601 | D-14 | Q601 | D-14 |
| D602 | B-14 | Q602 | C-13 |
| D603 | D-14 | Q603 | H-17 |
| | | Q604 | H-16 |
| IC101 | H-8 | Q605 | G-17 |
| IC102 | H-11 | Q606 | G-16 |
| IC401 | D-11 | Q607 | G-15 |
| IC501 | C-4 | Q608 | H-15 |
| IC601 | E-14 | Q609 | H-14 |
| IC602 | G-14 | Q610 | F-13 |
| PH401 | J-12 | | |
| Q101 | I-11 | | |
| Q102 | I-10 | | |
| Q301 | F-14 | | |
| Q302 | G-11 | | |
| Q303 | H-12 | | |

● ○—— : parts extracted from the component side.
● ■ : parts mounted on the conductor side.
● ● : Through hole.
● ▒▒ : Pattern on the side which is seen.
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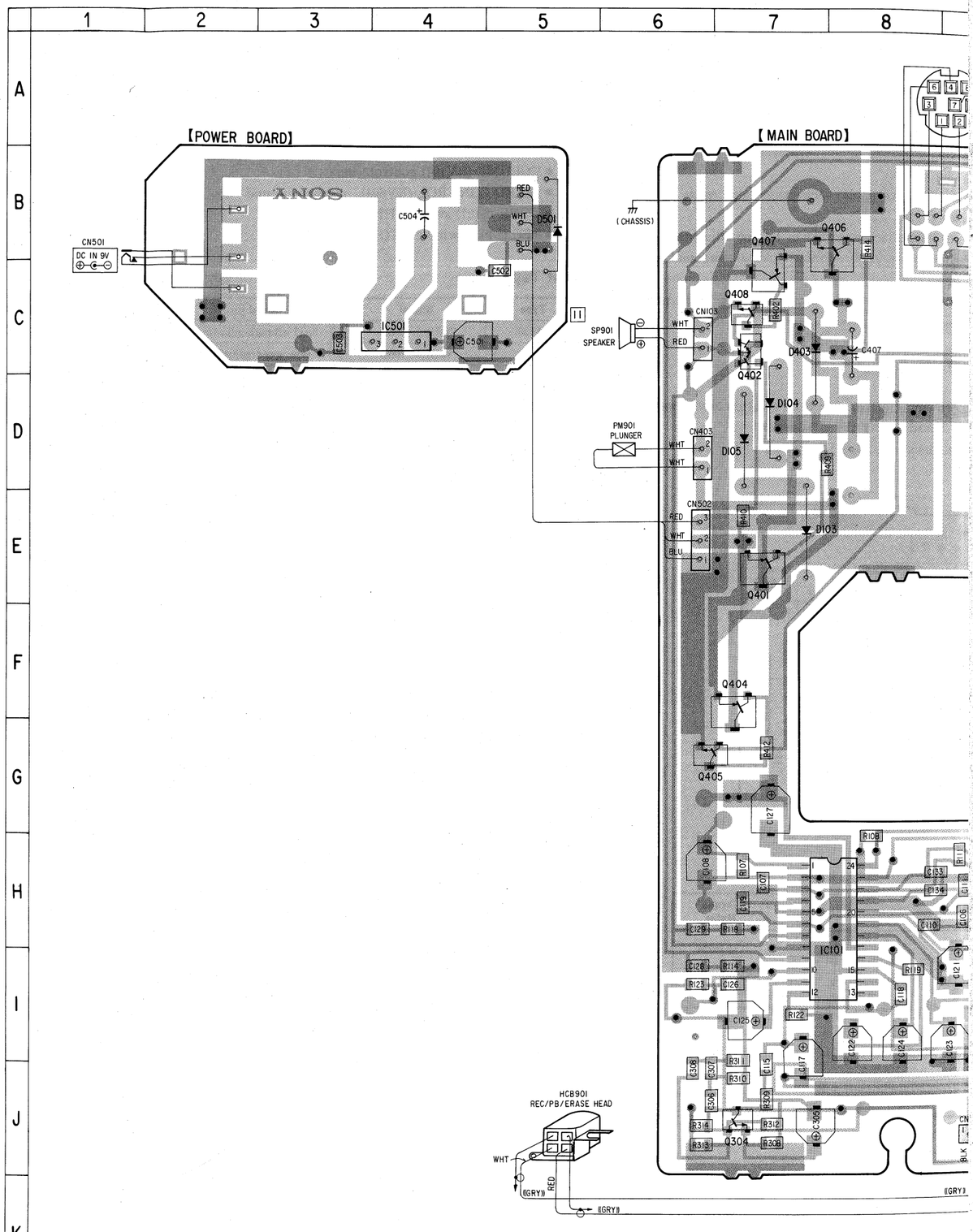
## 5-2. PRINTED WIRING BOARDS



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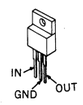


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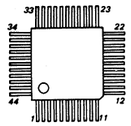
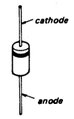



**10E2**

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| | | Q604 | H-16 |
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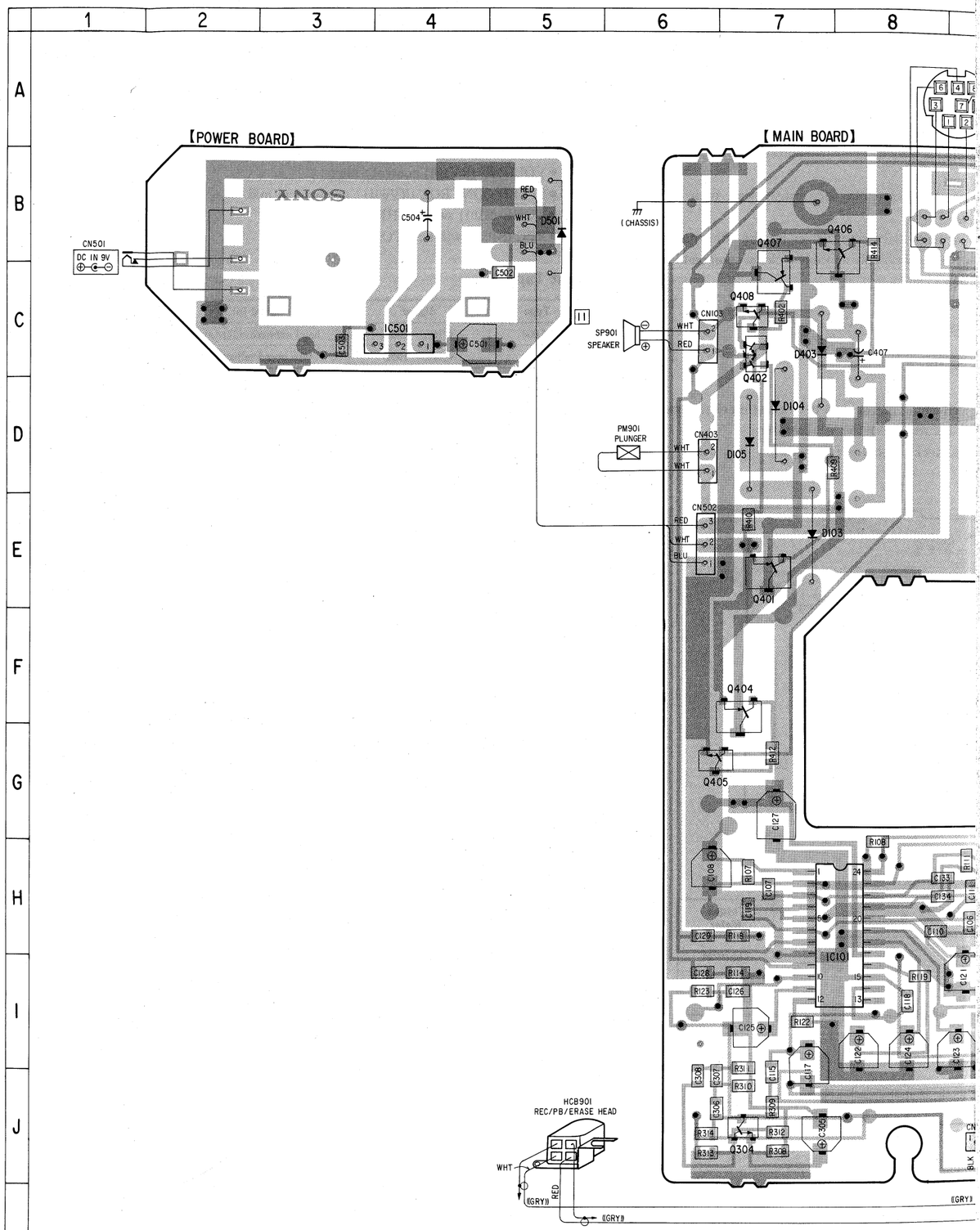
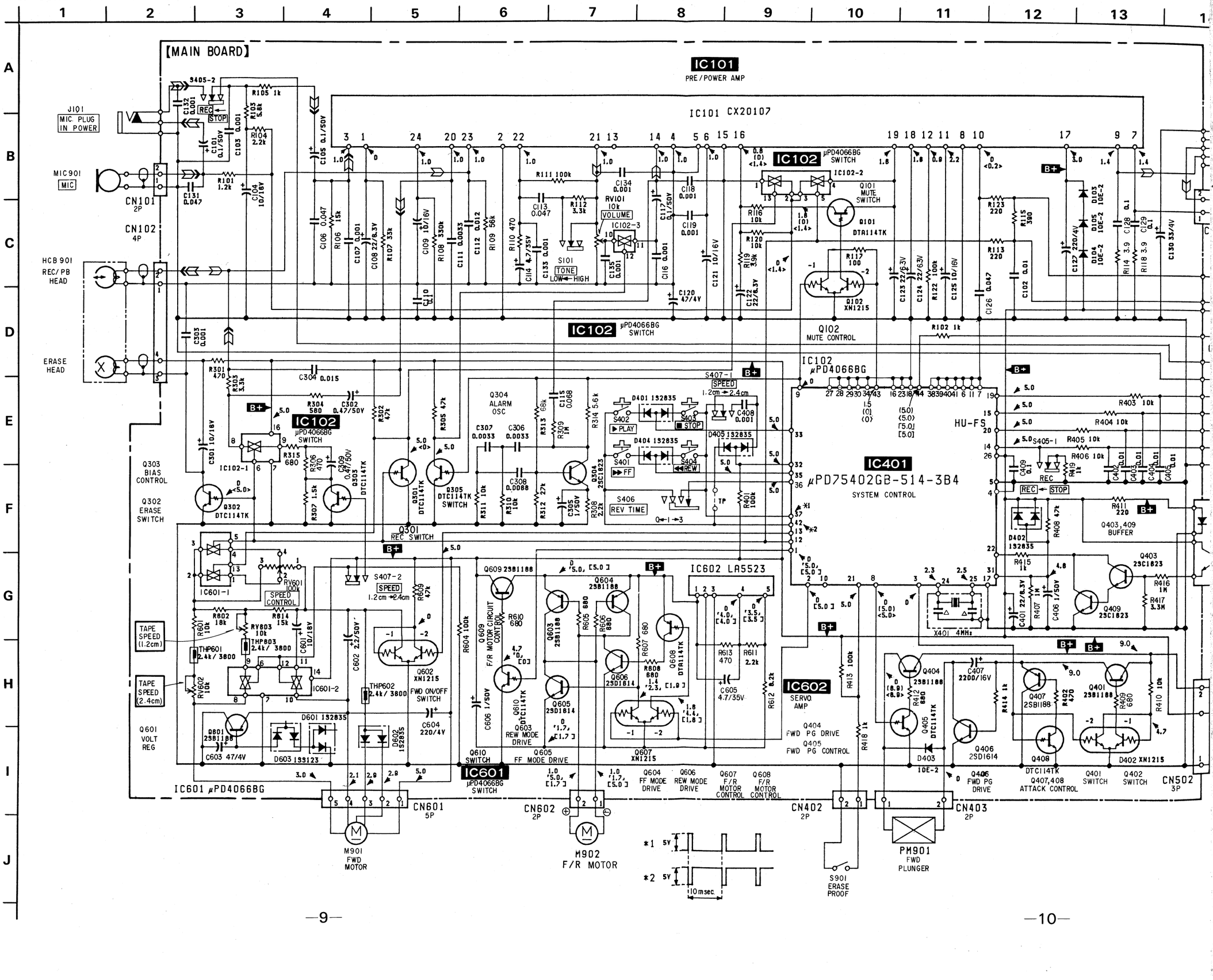
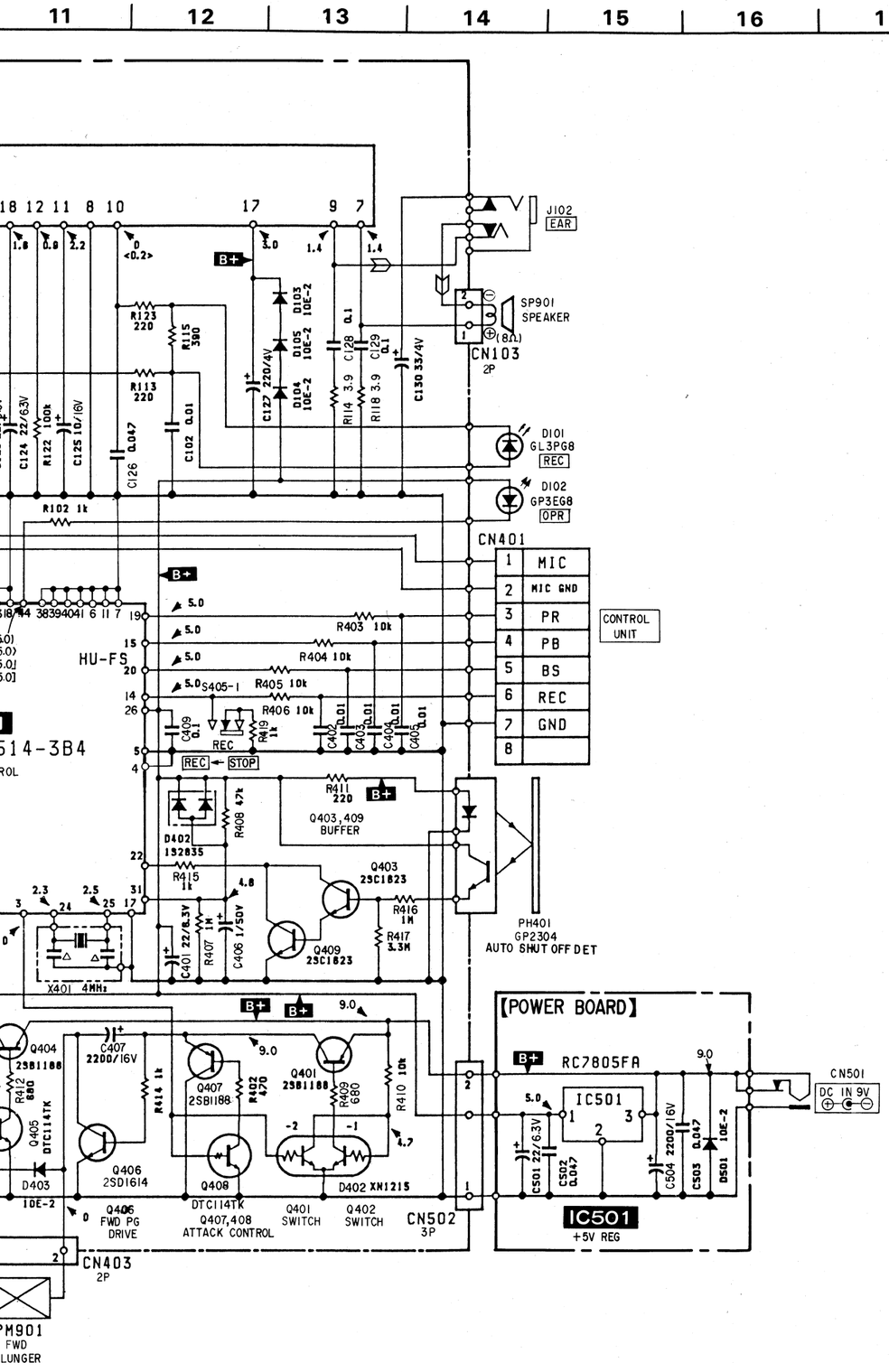


| 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

【MAIN BOARD】

CN401 CONTROL UNIT
S901 ERASE PROOF
J101 MIC PLUG IN POWER
J102 EAR
D101 REC
D102 OPR
S407 SPEED 1.2cm ↓ 2.4cm
M901 FWD MOTOR
S406 REV TIME 0 ↑ 3
S101 TONE LOW ↑ HIGH
M902 F/R MOTOR
S403 ■STOP
S404 ◀◀REW
S402 ▶PLAY
S401 ▶▶FF
S405 REC STOP REC
RV601 SPEED CONTROL
RV101 VOLUME
SP901 SPEAKER
PM901 PLUNGER
MIC901 MIC
HCB901 REC/PB/ERASE HEAD
(CHASSIS)
IC401
IC101
IC102
IC601
IC602
THP602
THP601
THP603
PH401
X401
SONY

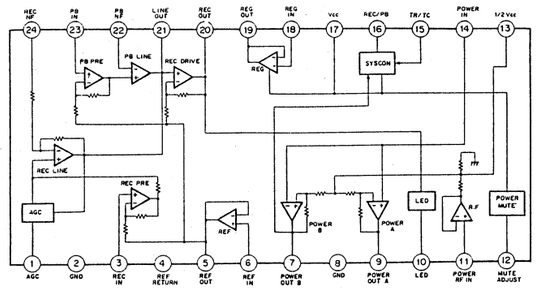

【MAIN BOARD】
IC101
PRE / POWER AMP
IC101 CX20107
IC102
μPD4066BG SWITCH
IC102-2
Q101 MUTE SWITCH
Q101 DTA114TK
Q102 XN1215
Q102 MUTE CONTROL
IC102-3
RV101 10k VOLUME
S101 TONE LOW ⟷ HIGH
IC102-1
IC102-4
IC102 μPD4066BG
IC401
μPD75402GB-514-3B4
SYSTEM CONTROL
IC601
μPD4066BG SWITCH
IC601-1
IC601-2
IC601 μPD4066BG
IC602
SERVO AMP
IC602 LA5523
Q404 FWD PG DRIVE
Q405 FWD PG CONTROL
Q406 FWD PG DRIVE
Q407,408 ATTACK CONTROL
Q401 SWITCH
Q402 SWITCH
Q403,409 BUFFER
Q301 REC SWITCH
Q302 ERASE SWITCH
Q303 BIAS CONTROL
Q304 ALARM OSC
Q305 DTC114TK SWITCH
Q601 VOLT REG
Q602 XN1215 FWD ON/OFF SWITCH
Q603 REW MODE DRIVE
Q604 FF MODE DRIVE
Q605 FF MODE DRIVE
Q606 REW MODE DRIVE
Q607 F/R MOTOR CONTROL
Q608 F/R MOTOR CONTROL
Q609 F/R MOTOR CIRCUIT CONTROL
Q610 SWITCH
J101 MIC PLUG IN POWER
MIC901 MIC
CN101 2P
CN102 4P
HCB 901 REC/PB HEAD
ERASE HEAD
TAPE SPEED (1.2cm)
TAPE SPEED (2.4cm)
S401 ▶▶FF
S402 ▶PLAY
S403 ■STOP
S404 ◀◀REW
S405-1 REC ⟷ STOP
S406 REV TIME
S407-1 SPEED 1.2cm ⟷ 2.4cm
S407-2 SPEED
SPEED CONTROL
THP601 2.4k/ 3800
THP602 2.4k/ 3800
THP603 2.4k/ 3800
RV601 100k
RV602 10k
RV603 10k
M901 FWD MOTOR
M902 F/R MOTOR
PM901 FWD PLUNGER
S901 ERASE PROOF
X401 4MHz
HU-FS
CN601 5P
CN602 2P
CN402 2P
CN403 2P
CN502 3P
B+
10msec.



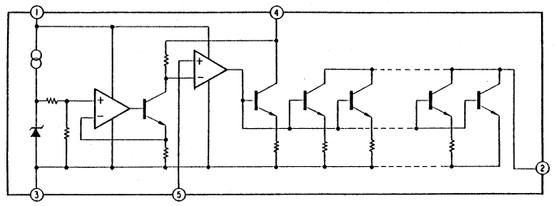



## • IC Block Diagram

### IC101 CX20107




### IC602 LA5523



**Note:**

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- Power voltage is dc 9 V and fed with regulated dc power supply from external power voltage jack.
- Voltage are dc with respect to ground under no-signal conditions.
  no mark : PLAY
  < > : REC
  ⌜ ⌟ : FF
  [ ] : REW
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ▷ : PB
  ▷» : REC

## 5-4. EXPLANATION OF IC401 ($\mu$PD75402GB-514-3B4)

| Pin No. | Symbol | I/O | Description |
|---|---|---|---|
| 1 | P30 | O | FF/REW motor ON/OFF signal |
| 2 | P31 | O | FF/REW motor normal turn/reverse turn control signal |
| 3 | P32 | O | Plunger suction signal |
| 4 | NC | — | |
| 5 | $V_{SS}$ | — | GND |
| 6 | NC | — | |
| 7 | NC | — | |
| 8 | P33 | O | Plunger holding signal |
| 9 | P60 | O | Alarm signal |
| 10 | P61 | — | |
| 11 | NC | — | |
| 12 | P62 | O | REC signal |
| 13 | P63 | O | FWD motor ON/OFF signal |
| 14 | P20 | I/O | REC key detection |
| 15 | P21 | I | PLAY key |
| 16 | NC | — | |
| 17 | $V_{SS}$ | — | GND |
| 18 | NC | — | |
| 19 | P22/PCL | I/O | Partial reverse key detection |
| 20 | P23 | I/O | Back space key detection |
| 21 | P10/INT0 | I/O | Erase proof detection |
| 22 | P12/INT2 | I | Reel turn detecting photosensor signal |
| 23 | NC | — | |
| 24 | X2 | I | clock |
| 25 | X1 | I | clock |
| 26 | $V_{DD}$ | — | Power supply |
| 27 | NC | — | |
| 28 | NC | — | |
| 29 | NC | — | |
| 30 | NC | — | |
| 31 | $\overline{RESET}$ | I | Reset signal |
| 32 | P00 | I | Matrix system, key detection<br>PLAY STOP FF REW, TAPE SPEED 1.2/2.4<br>REV TIME 0/1/3<br>TP (Pattern bridge stops END detection, and it Permits repair and operational check while floating the board.) |
| 33 | P01/$\overline{SCK}$ | | |
| 35 | P02/SO/SB0 | | |
| 36 | P03/SI | | |
| 37 | P50 | O | |
| 42 | P51 | | |
| 34 | NC | — | |
| 38 | NC | — | |
| 39 | NC | — | |
| 40 | NC | — | |
| 41 | NC | — | |
| 43 | P52 | O | Mute signal |
| 44 | P53 | O | Operation LED lighting |

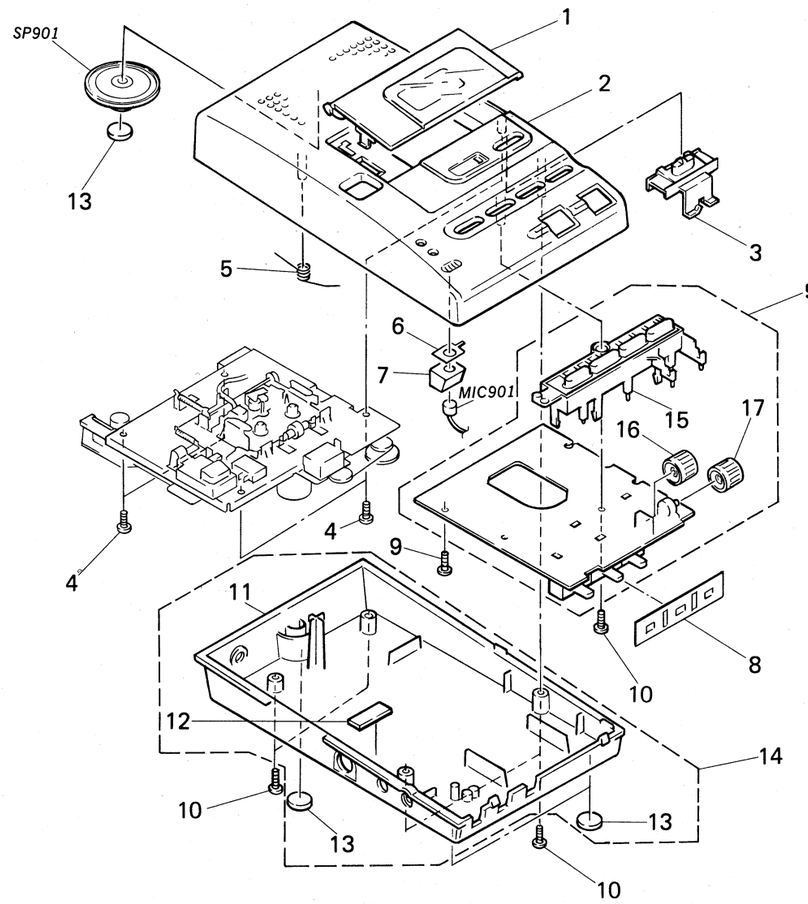


# SECTION 6
# EXPLODED VIEWS

**NOTE:**

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts Color

## 6-1. CABINET SECTION

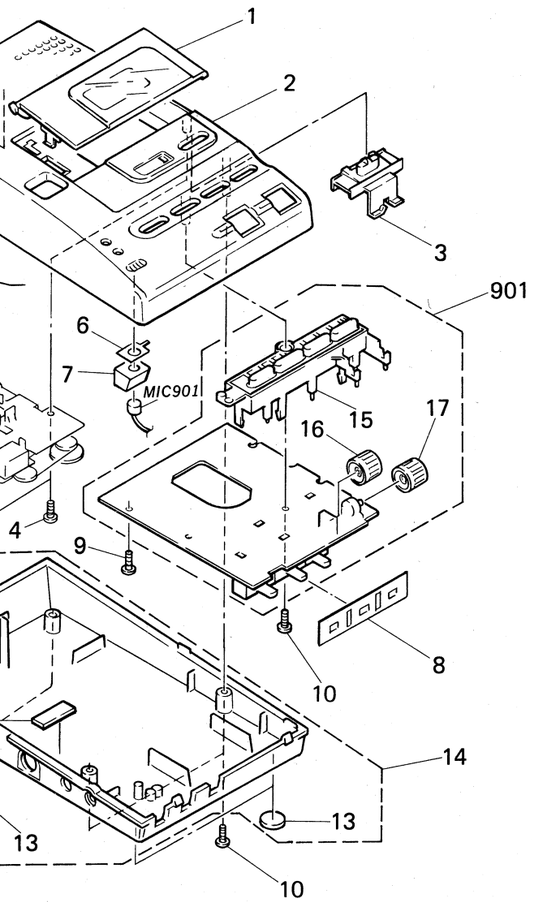



| Ref.No | Part No. | Description | Remarks |
|---|---|---|---|
| 1 | X-3353-902-1 | LID ASSY, CASSETTE | |
| 2 | X-3353-901-1 | CABINET (UPPER) ASSY | |
| 3 | 3-353-902-01 | KNOB (REC) | |
| 4 | 7-685-133-19 | SCREW +P 2.6X6 TYPE1 | |
| 5 | 3-335-193-01 | SPRING, CASSETTE | |
| 6 | *3-353-905-01 | SHEET, ADHESIVE, MICROPHONE | |
| 7 | *3-353-974-01 | CUSHION (MICROPHONE) | |
| 8 | 3-353-906-01 | COVER, SWITCH | |
| 9 | 7-621-770-87 | SCREW +P 2.6X5 | |
| 10 | 7-685-134-19 | SCREW +BTP 2.6X8 TYPE2 N-S | |

| Ref.No | Part No. | Description |
|---|---|---|
| 11 | 3-353-915-01 | CABINET (LOWER) |
| 12 | 9-911-815-01 | CUSHION, METER |
| 13 | 3-319-288-01 | FOOT |
| 14 | X-3353-912-1 | CABINET (LOWER) |
| 15 | 3-353-904-01 | BUTTON |
| 16 | 3-353-973-01 | KNOB (SPEED) |
| 17 | 3-353-916-01 | KNOB (VOLUME) |
| 901 | *A-3015-774-A | MOUNTED PCB, M |
| SP901 | 1-503-637-11 | SPEAKER |
| MIC901 | 1-542-092-11 | MICROPHONE, ELE |

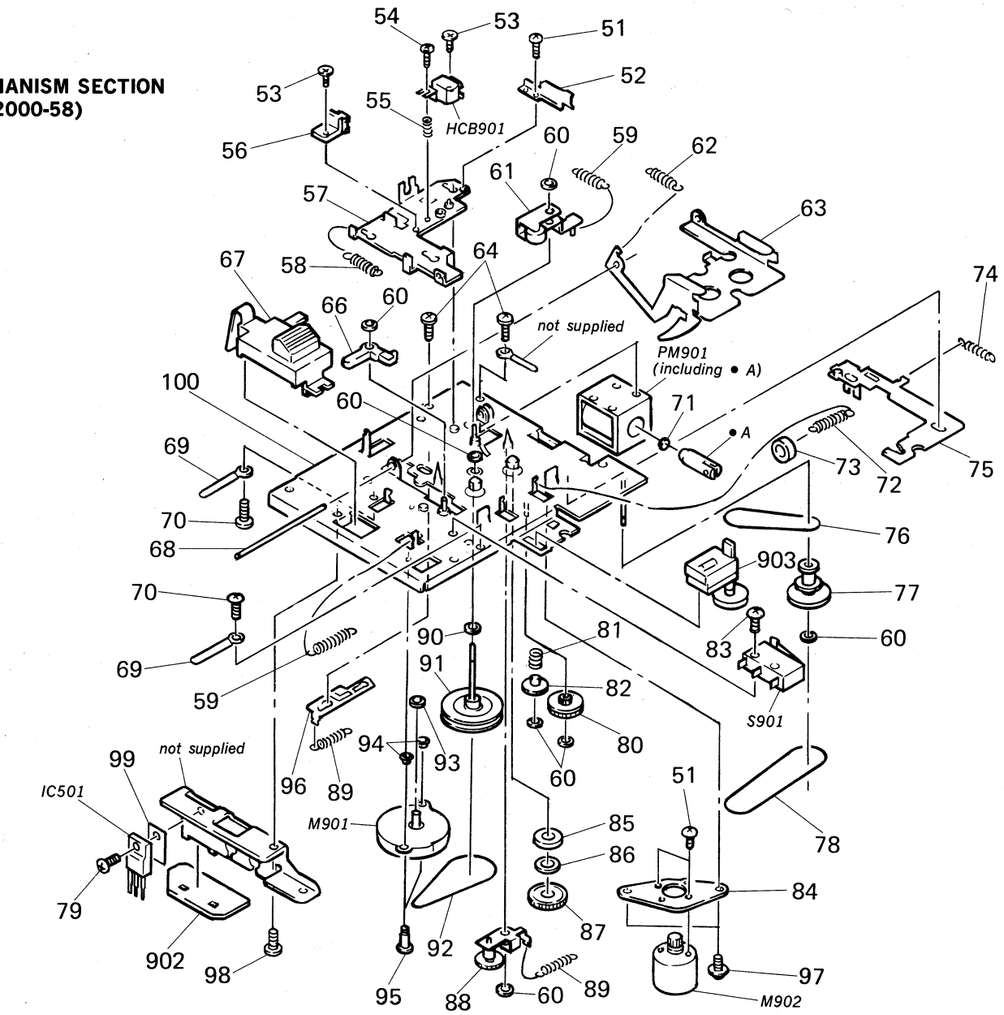
# SECTION 6
# EXPLODED VIEWS

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts Color




| Ref.No | Part No. | Description | Remarks |
|---|---|---|---|
| 11 | 3-353-915-01 | CABINET (LOWER) | |
| 12 | 9-911-815-01 | CUSHION, METER | |
| 13 | 3-319-288-01 | FOOT | |
| 14 | X-3353-912-1 | CABINET (LOWER) ASSY | 11-13 |
| 15 | 3-353-904-01 | BUTTON | |
| 16 | 3-353-973-01 | KNOB (SPEED) | |
| 17 | 3-353-916-01 | KNOB (VOLUME) | |
| 901 | *A-3015-774-A | MOUNTED PCB, MAIN | 15-17 |
| SP901 | 1-503-637-11 | SPEAKER | |
| MIC901 | 1-542-092-11 | MICROPHONE, ELECTRET CONDENSER | |

## 6-2. MECHANISM SECTION (MB-2000-58)




| Ref.No | Part No. | Description | Remarks |
|---|---|---|---|
| 51 | 7-627-552-28 | SCREW,PRECISION +P 1.7X2 | |
| 52 | *3-353-957-01 | GUIDE, TAPE | |
| 53 | 3-318-205-01 | SCREW (1.7X2.5) | |
| 54 | 3-353-979-01 | SCREW | |
| 55 | 3-353-958-01 | SPRING, COMPRESSION | |
| 56 | *3-353-959-01 | GUIDE (S), TAPE | |
| 57 | *X-3353-909-1 | CHASSIS ASSY, HEAD | |
| 58 | 3-353-964-01 | SPRING, TENSION | |
| 59 | 3-353-953-01 | SPRING, TENSION | |
| 60 | 3-578-242-11 | WASHER | |
| 61 | X-3353-906-1 | PINCH LEVER ASSY | |
| 62 | 3-335-155-01 | SPRING, TENSION(POWER TENSION) | |
| 63 | X-3335-109-1 | HOLDER COMPLETE ASSY, CASSETTE | |
| 64 | 7-682-646-09 | SCREW +PS 3X5 | |
| 66 | *3-335-167-01 | LEVER, ERASING PROTECTION | |
| 67 | 3-353-903-01 | KNOB (EJECT) | |
| 68 | *3-353-960-01 | PIN, PARALLEL | |
| 69 | *2-277-426-01 | CLAMP | |
| 70 | 7-621-255-15 | SCREW +P 2X3 | |
| 71 | 4-879-274-41 | SPACER | |
| 72 | 3-353-956-01 | SPRING, TENSION | |
| 73 | *3-335-116-01 | ROLLER, EMP | |
| 74 | 3-353-954-01 | SPRING, TENSION | |
| 75 | *X-3353-908-1 | LEVER ASSY, PLAY | |
| 76 | 3-353-951-01 | BELT, DETECTION | |
| 77 | X-3353-911-1 | PULLEY (RELAY) ASSY | |
| 78 | 3-353-952-01 | BELT, COUNTER | |
| 79 | 7-621-770-67 | SCREW B 2.6X6 | |
| 80 | X-3335-135-1 | LIMITER ASSY, FR | |
| 81 | 3-335-230-02 | SPRING, COMPRESSION | |

| Ref.No | Part No. | Description | Remarks |
|---|---|---|---|
| 82 | 3-335-121-01 | GEAR, FR | |
| 83 | 7-621-257-55 | SCREW +P 2.3X8 | |
| 84 | *3-353-962-01 | BRACKET (FR MOTOR) | |
| 85 | 3-335-126-01 | PLATE, MAGNET | |
| 86 | 3-335-123-01 | SPACER (M) (T=0.1) | |
| 86 | 3-335-123-11 | SPACER (M) (T=0.2) | |
| 86 | 3-335-123-21 | SPACER (M) (T=0.3) | |
| 87 | X-3335-107-1 | LIMITER (B) ASSY, FWD | |
| 88 | X-3353-907-1 | GEAR ASSY, IDLER | |
| 89 | 3-353-955-01 | SPRING, TENSION | |
| 90 | 3-701-436-01 | WASHER, 1.6 | |
| 91 | X-3353-910-1 | WHEEL ASSY, CAPSTAN | |
| 92 | 3-353-963-01 | BELT, CAPSTAN | |
| 93 | 3-353-972-01 | RUBBER, BUSHING | |
| 94 | *3-335-208-01 | CUSHION, MOTOR | |
| 95 | 3-353-961-01 | SCREW (M1.4), STEP | |
| 96 | *3-353-950-01 | LEVER (SAFETY) | |
| 97 | 3-342-759-41 | SCREW (B1.7X4), TAPPING | |
| 98 | 7-621-770-87 | SCREW +P 2.6X5 | |
| 99 | 4-391-336-01 | SHEET, INSULATING | |
| 100 | *X-3353-903-1 | CHASSIS (OUTSERT) ASSY | |
| 902 | *1-631-078-11 | PC BOARD, POWER | |
| 903 | 1-548-599-21 | COUNTER, TAPE (SMALL TYPE) | |
| IC501 | 8-759-982-05 | IC RC7805FA | |
| M901 | 1-541-691-11 | MOTOR (FWD) | |
| M902 | 1-541-685-11 | MOTOR, DC (F/R) | |
| PM901 | 1-454-486-11 | SOLENOID, PLUNGER | |
| S901 | 1-554-385-00 | SWITCH, MICRO (ERASE PROOF) | |
| HCB901 | 1-543-638-11 | HEAD, MAGNETIC (REC/PB/ERASE) | |

# SECTION 7
# ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

| Ref.No | Part No. | Description | | | |
|---|---|---|---|---|---|
| 901 | *A-3015-774-A | MOUNTED PCB, MAIN | | | |
| 902 | *1-631-078-11 | PC BOARD, POWER | | | |
| 903 | 1-548-599-21 | COUNTER, TAPE (SMALL TYPE) | | | |
| | | CAPACITOR | | | |
| C101 | 1-126-187-11 | ELECT CHIP | 0.1MF | 20% | 50V |
| C102 | 1-163-021-00 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C103 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C104 | 1-124-779-00 | ELECT CHIP | 10MF | 20% | 16V |
| C105 | 1-126-187-11 | ELECT CHIP | 0.1MF | 20% | 50V |
| C106 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C107 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C108 | 1-124-778-00 | ELECT CHIP | 22MF | 20% | 6.3V |
| C109 | 1-124-779-00 | ELECT CHIP | 10MF | 20% | 16V |
| C110 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C111 | 1-163-015-00 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C112 | 1-163-022-00 | CERAMIC CHIP | 0.012MF | 10% | 50V |
| C113 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C114 | 1-126-198-11 | ELECT CHIP | 4.7MF | 20% | 35V |
| C115 | 1-163-019-00 | CERAMIC CHIP | 0.0068MF | 10% | 50V |
| C116 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C117 | 1-126-187-11 | ELECT CHIP | 0.1MF | 20% | 50V |
| C118 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C119 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C120 | 1-126-208-11 | ELECT CHIP | 47MF | 20% | 4V |
| C121 | 1-124-779-00 | ELECT CHIP | 10MF | 20% | 16V |
| C122 | 1-124-778-00 | ELECT CHIP | 22MF | 20% | 6.3V |
| C123 | 1-124-778-00 | ELECT CHIP | 22MF | 20% | 6.3V |
| C124 | 1-124-778-00 | ELECT CHIP | 22MF | 20% | 6.3V |
| C125 | 1-124-779-00 | ELECT CHIP | 10MF | 20% | 16V |
| C126 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C127 | 1-126-246-11 | ELECT CHIP | 220MF | 20% | 4V |
| C128 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C129 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C130 | 1-126-207-11 | ELECT CHIP | 33MF | 20% | 4V |
| C131 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C132 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C133 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C134 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C135 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C301 | 1-124-779-00 | ELECT CHIP | 10MF | 20% | 16V |
| C302 | 1-126-191-11 | ELECT CHIP | 0.47MF | 20% | 50V |
| C303 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C304 | 1-163-023-00 | CERAMIC CHIP | 0.015MF | 10% | 50V |
| C305 | 1-126-193-11 | ELECT CHIP | 1MF | 20% | 50V |
| C306 | 1-163-015-00 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C307 | 1-163-015-00 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C308 | 1-163-019-00 | CERAMIC CHIP | 0.0068MF | 10% | 50V |
| C309 | 1-126-191-11 | ELECT CHIP | 0.47MF | 20% | 50V |
| C401 | 1-124-778-00 | ELECT CHIP | 22MF | 20% | 6.3V |
| C402 | 1-163-021-00 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C403 | 1-163-021-00 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C404 | 1-163-021-00 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C405 | 1-163-021-00 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C406 | 1-126-193-11 | ELECT CHIP | 1MF | 20% | 50V |
| C407 | 1-124-556-11 | ELECT | 2200MF | 20% | 16V |
| C408 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C409 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C501 | 1-124-778-00 | ELECT CHIP | 22MF | 20% | 6.3V |
| C502 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C503 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C504 | 1-124-556-11 | ELECT | 2200MF | 20% | 16V |
| C601 | 1-124-779-00 | ELECT CHIP | 10MF | 20% | 16V |
| C602 | 1-126-195-11 | ELECT CHIP | 2.2MF | 20% | 50V |
| C603 | 1-126-208-11 | ELECT CHIP | 47MF | 20% | 4V |
| C604 | 1-126-246-11 | ELECT CHIP | 220MF | 20% | 4V |
| C605 | 1-126-198-11 | ELECT CHIP | 4.7MF | 20% | 35V |
| C606 | 1-126-193-11 | ELECT CHIP | 1MF | 20% | 50V |
| CN101 | *1-506-467-11 | PIN, CONNECTOR 2P | | | |
| CN102 | *1-506-469-11 | PIN, CONNECTOR 4P | | | |
| CN103 | *1-506-467-11 | PIN, CONNECTOR 2P | | | |
| CN401 | 1-568-229-11 | SOCKET, CONNECTOR 8P (CONTROL UNIT) | | | |
| CN402 | *1-506-467-11 | PIN, CONNECTOR 2P | | | |
| CN403 | *1-506-467-11 | PIN, CONNECTOR 2P | | | |
| CN501 | 1-562-961-11 | JACK (DC IN 9V) | | | |
| CN502 | *1-506-468-11 | PIN, CONNECTOR 3P | | | |
| CN601 | *1-506-470-11 | PIN, CONNECTOR 5P | | | |
| CN602 | *1-506-467-11 | PIN, CONNECTOR 2P | | | |
| D101 | 8-719-812-41 | DIODE TLR124 | | | |
| D102 | 8-719-938-67 | DIODE GL3EG8 | | | |
| D103 | 8-719-200-02 | DIODE 10E2 | | | |
| D104 | 8-719-200-02 | DIODE 10E2 | | | |
| D105 | 8-719-200-02 | DIODE 10E2 | | | |
| D401 | 8-719-100-03 | DIODE 1S2835 | | | |
| D402 | 8-719-100-03 | DIODE 1S2835 | | | |
| D403 | 8-719-200-02 | DIODE 10E2 | | | |
| D404 | 8-719-100-03 | DIODE 1S2835 | | | |
| D405 | 8-719-100-03 | DIODE 1S2835 | | | |
| D501 | 8-719-200-02 | DIODE 10E2 | | | |
| D601 | 8-719-100-03 | DIODE 1S2835 | | | |
| D602 | 8-719-100-03 | DIODE 1S2835 | | | |
| D603 | 8-719-800-76 | DIODE 1SS123 | | | |
| IC101 | 8-752-010-71 | IC CX20107 | | | |
| IC102 | 8-759-106-23 | IC UPD4066BG | | | |
| IC401 | 8-759-146-07 | IC UPD75402GB-514-3B4 | | | |
| IC501 | 8-759-982-05 | IC RC7805FA | | | |
| IC601 | 8-759-106-23 | IC UPD4066BG | | | |
| IC602 | 8-759-801-12 | IC LA5523 | | | |
| J101 | 1-566-740-11 | JACK (MIC PLUG IN POWER) | | | |
| J102 | 1-507-896-00 | JACK, HEADPHONE (EAR) | | | |
| PH401 | 8-719-913-40 | DIODE GP-2S04 | | | |
| Q101 | 8-729-900-51 | TRANSISTOR DTA114TK | | | |
| Q102 | 8-729-403-17 | TRANSISTOR XN1215 | | | |
| Q301 | 8-729-902-99 | TRANSISTOR DTC114TK | | | |
| Q302 | 8-729-902-99 | TRANSISTOR DTC114TK | | | |
| Q303 | 8-729-902-99 | TRANSISTOR DTC114TK | | | |
| Q304 | 8-729-100-66 | TRANSISTOR 2SC1623-L6 | | | |

| Ref.No | Part No. | Description |
|---|---|---|
| Q305 | 8-729-902-99 | TRANSISTOR DTC114TK |
| Q401 | 8-729-807-33 | TRANSISTOR 2SB1123 |
| Q402 | 8-729-403-17 | TRANSISTOR XN1215 |
| Q403 | 8-729-100-66 | TRANSISTOR 2SC1623-L6 |
| Q404 | 8-729-807-33 | TRANSISTOR 2SB1123 |
| Q405 | 8-729-902-99 | TRANSISTOR DTC114TK |
| Q406 | 8-729-807-16 | TRANSISTOR 2SD1621-R |
| Q407 | 8-729-807-33 | TRANSISTOR 2SB1123 |
| Q408 | 8-729-902-99 | TRANSISTOR DTC114TK |
| Q409 | 8-729-100-66 | TRANSISTOR 2SC1623-L6 |
| Q601 | 8-729-807-33 | TRANSISTOR 2SB1123 |
| Q602 | 8-729-403-17 | TRANSISTOR XN1215 |
| Q603 | 8-729-807-33 | TRANSISTOR 2SB1123 |
| Q604 | 8-729-807-33 | TRANSISTOR 2SB1123 |
| Q605 | 8-729-807-16 | TRANSISTOR 2SD1621-R |
| Q606 | 8-729-807-16 | TRANSISTOR 2SD1621-R |
| Q607 | 8-729-403-17 | TRANSISTOR XN1215 |
| Q608 | 8-729-900-51 | TRANSISTOR DTA114TK |
| Q609 | 8-729-807-33 | TRANSISTOR 2SB1123 |
| Q610 | 8-729-902-99 | TRANSISTOR DTC114TK |

RESISTOR

| Ref.No | Part No. | Description | | | |
|---|---|---|---|---|---|
| R101 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W |
| R102 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R103 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R104 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R105 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R106 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |
| R107 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W |
| R108 | 1-216-109-00 | METAL GLAZE | 330K | 5% | 1/10W |
| R109 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W |
| R110 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R111 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R112 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R113 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R114 | 1-216-306-11 | METAL GLAZE | 3.9 | 5% | 1/10W |
| R115 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W |
| R116 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R117 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R118 | 1-216-306-11 | METAL GLAZE | 3.9 | 5% | 1/10W |
| R119 | 1-216-063-00 | METAL GLAZE | 3.9K | 5% | 1/10W |
| R120 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R122 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R123 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R301 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R302 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R303 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R304 | 1-216-043-00 | METAL GLAZE | 560 | 5% | 1/10W |
| R305 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R306 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R307 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W |
| R308 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R309 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |
| R310 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R311 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R312 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W |
| R313 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W |
| R314 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R315 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R401 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R402 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R403 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R404 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R405 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R406 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R407 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |

| Ref.No | Part No. | Description | | | |
|---|---|---|---|---|---|
| R408 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R409 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R410 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R411 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R412 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R413 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R414 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R415 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R416 | 1-216-121-00 | METAL GLAZE | 1M | 5% | 1/10W |
| R417 | 1-216-133-00 | METAL GLAZE | 3.3M | 5% | 1/10W |
| R418 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R419 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R601 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R602 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W |
| R604 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R605 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R606 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R607 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R608 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R609 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R610 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R611 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R612 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W |
| R613 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R614 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |

| | | |
|---|---|---|
| RV101 | 1-238-646-11 | RES, VAR, CARBON 10K (VOLUME) |
| RV601 | 1-238-627-11 | RES, VAR, CARBON 100K (SPEED CONTROL) |
| RV602 | 1-238-676-11 | RES, ADJ, METAL GLAZE 10K |
| RV603 | 1-238-676-11 | RES, ADJ, METAL GLAZE 10K |
| S101 | 1-552-334-00 | SWITCH, BAND CHANGER (TONE) |
| S401 | 1-571-528-11 | SWITCH, KEY BOARD (▶▶FF) |
| S402 | 1-571-528-11 | SWITCH, KEY BOARD (▶PLAY) |
| S403 | 1-571-528-11 | SWITCH, KEY BOARD (■STOP) |
| S404 | 1-571-528-11 | SWITCH, KEY BOARD (◀◀REW) |
| S405 | 1-554-481-00 | SWITCH, SLIDE (REC) |
| S406 | 1-554-277-00 | SWITCH, SLIDE (REV TIME) |
| S407 | 1-552-334-00 | SWITCH, BAND CHANGER (SPEED) |
| THP601 | 1-806-367-11 | THERMISTOR (POSITIVE) |
| THP602 | 1-806-367-11 | THERMISTOR (POSITIVE) |
| THP603 | 1-806-367-11 | THERMISTOR (POSITIVE) |
| X401 | 1-567-772-11 | VIBRATOR, CERAMIC (4MHz) |

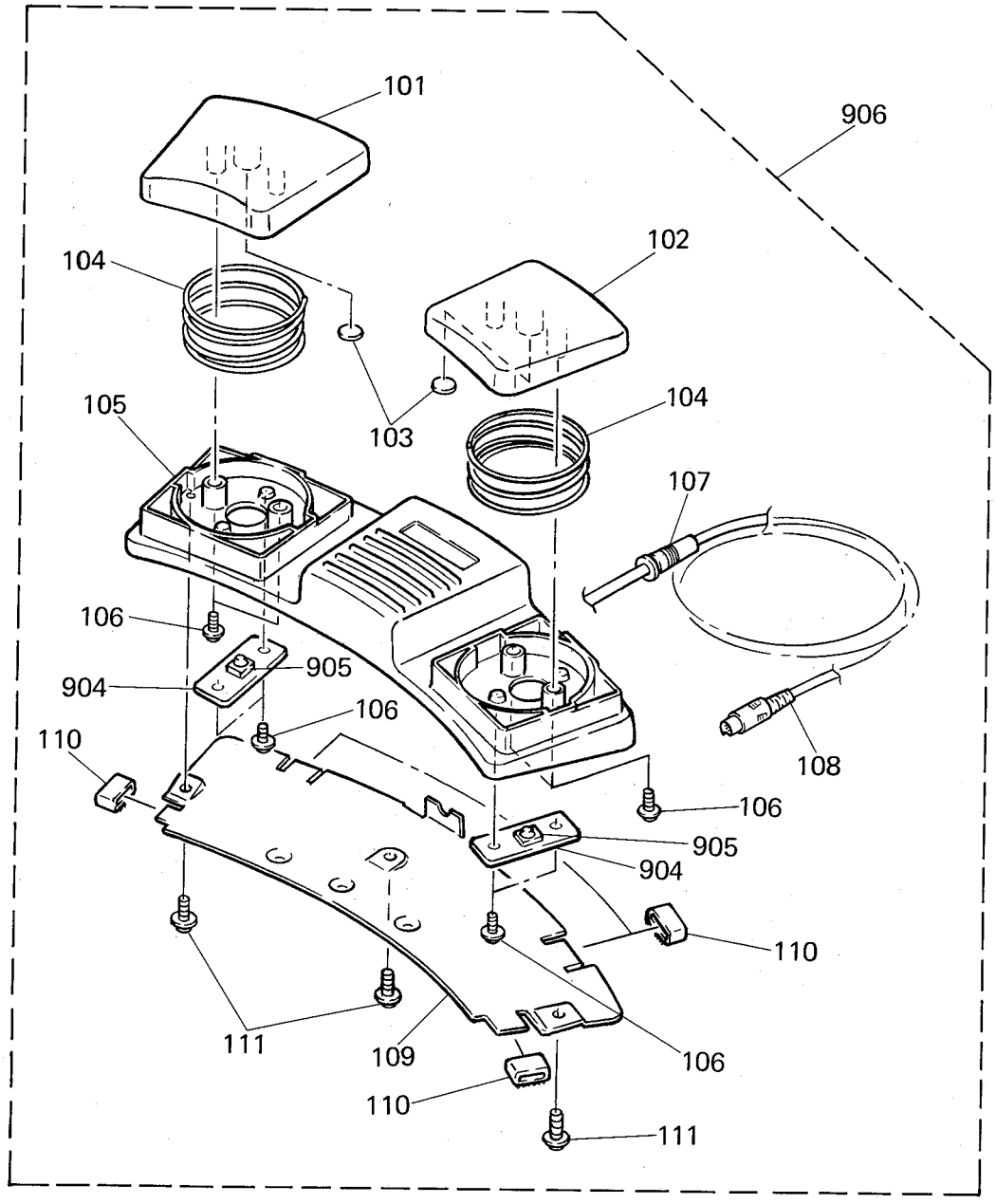
| Part No. | Description | Remarks |
|---|---|---|
| | ACCESSORIES & PACKING MATERIALS | |
| | ********** | |
| ⚠ 1-463-705-11 | (AEP)....ADAPTOR, AC (AC-930) | |
| ⚠ 1-463-700-11 | (UK)....ADAPTOR, AC (AC-930A) | |
| ⚠ 1-463-884-11 | (US)....ADAPTOR, AC (AC-930B) | |
| 3-336-617-01 | BAG, PROTECTION | |
| *3-353-968-01 | CUSHION (UPPER) | |
| *3-353-969-01 | CUSHION (LOWER) | |
| *3-353-970-01 | (US)....INDIVIDUAL CARTON | |
| *3-353-978-01 | (AEP, UK)....INDIVIDUAL CARTON | |
| 3-750-533-21 | MANUAL, INSTRUCTION | |
| 3-750-533-11 | (AEP, UK)....MANUAL, INSTRUCTION | |
| 8-916-911-30 | CONTROL UNIT, FOOT FS-25(U) | |
| 8-952-313-90 | HEADPHONE MDR-005L/B SET | |

**Note:** The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

# SECTION 8
# FOOT CONTROL UNIT (FS-25)

**NOTE:**

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color




| Ref.No | Part No. | Description | Remarks |
|---|---|---|---|
| 101 | 2-263-525-01 | PEDAL (LEFT) | |
| 102 | 2-263-525-11 | PEDAL (RIGHT) | |
| 103 | 3-319-288-01 | FOOT | |
| 104 | 2-263-527-01 | SPRING, COMPRESSION | |
| 105 | 2-263-526-01 | CASE | |
| 106 | 4-880-333-01 | SCREW, +PTPWH 2.6X5 | |
| 107 | 3-143-524-11 | BUSHING, CABLE | |
| 108 | 1-575-031-11 | CORD (WITH CONNECTOR) | |
| 109 | 2-263-524-01 | PLATE, BOTTOM | |
| 110 | 3-143-712-01 | FOOT, RUBBER | |
| 111 | 3-703-135-11 | SCREW, +PTTWH 3X8 | |
| 904 | *1-631-129-11 | PC BOARD, SW | |
| 905 | 1-571-315-11 | SWITCH, KEY BOARD | |
| 906 | 8-916-911-30 | CONTROL UNIT, FOOT FS-25(U) | |